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Bodman praises Lab science work

By Don Johnston
NEWSLINE STAFF WRITER

Energy Secretary Samuel Bodman made his first visit to the Laboratory Wednesday “with great reverence and respect.”

“I’m an engineer,” Bodman said to applause in his remarks opening an all-hands address in the Bldg. 123 auditorium. “As an engineering student at MIT, I came to revere the people who created this Laboratory — Ernest Lawrence, Edward Teller and the many leaders of this Laboratory.”

Bodman has been visiting DOE sites across the country “to get to know the people at DOE labs and facilities.” During his full day in Livermore, Bodman was briefed on stockpile stewardship and other national security programs and toured research facilities including the National Ignition Facility and the Terascale Simulation Facility.



JACQUELINE MCBRIDE/NEWSLINE

Energy Secretary Samuel Bodman speaks with local news reporters while DOE Office of Science Director Ray Orbach looks on.

“This Laboratory is one of the department’s most important resources,” he said, going on to praise the Lab’s work in stewardship of the nation’s nuclear deterrent. “One of the reasons I’m here is to congratulate you and thank you for your effort on behalf of the country.”

“This lab’s focus on stockpile stewardship is crucial to the department’s national security mission. I have some idea of what an enormous technical feat it is for you to take on ensuring the safety, security and reliability of our nuclear deterrent in the absence of testing,” Bodman said.

“It’s a feat that in my view can only be accomplished by extreme dedication, diligence and the ingenuity of this group of people before me and your colleagues.”

See more visit photos,
page 5

See BODMAN, page 5

Aurora project members rank proposed initiatives for fulfilling vision 2025

By Anne M. Stark
NEWSLINE STAFF WRITER

The Aurora Project moved a step closer to what Director Michael Anastasio calls “the end of the beginning” when participants gave their collective guidance to the director on the priority of a group of 17 proposed initiatives last week.



Among the highly placed initiatives ranked by the 113 members present at the two-day offsite meeting on Tuesday and Thursday of last week

See AURORA, page 7

Protesters plan demonstrations to mark the 60th anniversary of Hiroshima and Nagasaki

By David Schwoegler
NEWSLINE STAFF WRITER

According to the University of California Police Department, demonstrators plan to march to the Laboratory’s perimeter on Saturday evening, Aug. 6, and again during the morning of Tuesday, Aug. 9. The two demonstrations will protest the 60th anniversary of the Hiroshima and Nagasaki bombings.

Ted Sheppard of UC Police explained details of both activities to a planning meeting of local

See PROTEST, page 7

IBM’s Purple supercomputer exceeds performance objectives in milestone pre-delivery test

IBM has announced that the Advanced Simulation and Computing program’s Purple system was demonstrated on time and exceeded performance objectives in a recent milestone test at the manufacturer’s Poughkeepsie, N.Y. facility.

IBM plans to deliver the remainder of the system to the Laboratory in August, with acceptance testing scheduled for October. ASC Purple — the first racks of which were delivered in April — is housed in the recently completed Terascale Simulation Facility (TSF).

ASC Purple is the result a long term collaboration between the DOE National Nuclear Security Administration’s (DOE/NNSA) ASC Program and IBM, with Livermore as the lead lab-

See PURPLE, page 8



JACQUELINE MCBRIDE/NEWSLINE

Linton Brooks tours Site 300

Ambassador Linton Brooks (right), administrator of the National Nuclear Security Administration, is shown the flash X-ray (FXR) machine at bunker 801 by Charles McMillan of B Division during a tour of Site 300 Thursday morning. Behind McMillan are Wayne Shotts, deputy director for Operations, Camille Yuan-Soo Hoo of DOE Livermore Site Operations Office and Bruce Goodwin, associate director for Defense and Nuclear Technologies.



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2005 on the
march
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Addressing local
threat to employee
security
— Page 7



Radiation
detection is
a class act
— Page 8



LAB COMMUNITY NEWS

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Monday
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The **Lab blood drive** kicks off today in Trailer 4675 (the old central cafeteria). Donors are encouraged to schedule an appointment in advance at <http://www.beadonor.com/> and click on the word "registration." The drive sponsor code is: LLNL. Individuals without Internet access can schedule an appointment by calling the LLESA Office at 2-9402. Donor eligibility questions should be directed to the American Red Cross at 510-594-5143.

Tuesday
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The Lab will present "**Science in the Movies**," today from 2-3 p.m. and 7-8 p.m. at the Amador Theater, 1155 Santa Rita Road, Pleasanton. Ever wonder how movie stuntmen stay safe when they are on fire, crashing through windows or jumping from buildings? Do you know how science is used to help solve the challenges of movie-making? Veteran special effects coordinator Steve Wolf shows you how during this fun and educational look at the science behind TV and film stunts and special effects. Admission is free. Seating is on a first-come, first-served basis. Theater doors will open 30 minutes before show time. Families are welcome. For more information, call 2-4599.

Thursday
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The next Leadership Lecture Series "**Six Stages of Power: Transforming Yourself and Your Organization in the Face of Change**" will be presented by Delores Ambrose, today from 9:30-11:30 a.m. in the Bldg. 123 auditorium. Ambrose will explore externally and internally driven change many organizations face. Using a six-stage model of power, she will discuss implications for personal and organizational renewal. The lecture is open to all employees. Pre-registration is requested. To enroll, go to: http://www-r.llnl.gov-human_resources/sedd/eodd/event_lecture_ambrose_reg.html

Up & Coming

The **San Joaquin Expanding Your Horizons in Science and Mathematics** conference, scheduled for Oct. 1 at the University of the Pacific in Stockton, is seeking fund-raising and media chairpersons. The duties of the fund-raising chairperson include soliciting funds and donations; sending thank you notes to sponsors and donors. The duties of the media chairperson include inviting VIPs and local media; contacting TV, radio and newspapers; setting up interviews; and writing press releases. No experience is needed for either position. For more information about the conference: <http://education.llnl.gov/eyh/>. Contact: Yuki Ohashi, (925) 294-2393 or yohashi@sandia.gov.

RETIREES' CORNER

From the Okanogan County, *Washington Gazette-Tribune*: "**Vernon Orville Wills** celebrated his 100th birthday on June 18. He is retired from Lawrence Radiation Laboratory and the University of California, Berkeley where he redesigned control circuitry from vacuum tubes to transistors." He lives in Tonasket, Wash. Some of us may remember him.

In June, **Hank** (Engineering, 1991) and **Marian McDonald** celebrated their 50th wedding anniversary by taking the whole family on a Carnival Cruise to the western Caribbean. They were very lucky with the weather, and all (13) had a grand time. The grandchildren loved the giant waterslide. See the Retirees' Website for photo.

Fritz Frick and his wife Regina just returned from a trip to their home town, Ulm, Germany. He sent a post card with a picture of the Munster Church, which has the tallest steeple, about 500 feet, in the world. This town also is the birth place of Albert Einstein.

Jane (Engineering, 1993) and **Pat** (Mechanical Engineering, 1990) **Ellis** just returned from a two-month motor home trip to Canada. In Calgary, they took in a tour, parade (sheep dogs herding sheep), rodeo, fireworks and more. Though the fireworks were outstanding, they felt it was over-priced. They saw some beautiful country, wild animals, mountains, waterfalls. Jane's favorite RV park was Revelstoke; it was fantastic. The Mall in Edmonton (largest in the world) is something else, 800 stores with swimming, ice rink, just about everything.

Marlys Hanson (EE, 1991) and her husband moved to Saddle Creek Golf Resort near Copperopolis about three years ago. Their son is near Modesto and

their daughter is near Angels Camp, so this is a central location. She is doing some consulting — for BP (British Petroleum.) Her book, "Passion and Purpose," is being used as the text for graduate-level career decision courses at Northwestern, Regent University and the Harvard School of Divinity. She is doing career assessments via the Internet — so her "retirement" plan of working from her deck is shaping up. (E-mail: mhanson@caltel.com)

Ron (Mechanical Engineering, 1990) and **Barbara** (Mechanical Engineering, 1993) **Hill** have been Trail Safety Patrol volunteers for the East Bay Regional Park District for the past 10 years. Their main focus is educating the public about the 55 parks, observing, reporting and enjoying while walking some of the 1,000 miles of trails. Helping at special events are an added bonus and walking in the Danville

Fourth of July Parade has become almost a tradition. (E-mail: BJuneHill@aol.com) More next month.

The August retiree luncheon will be at noon Wednesday, Aug. 17, at the Elks Lodge, 940 Larkspur Drive, Livermore. (Reservations: www.llnlretirees.org). LLNL physicist **Curt Covey** will discuss the scientific basis for believing that global warming is caused by human activities like fossil fuel consumption. Curt works in the Lab's atmospheric sciences program to evaluate and compare leading climate models — an effort at which Livermore is an international leader.

Please send any input to Jane or Gus Olson. E-mail: AugustO@aol.com or JaneRubert@aol.com. Phone: (925) 443-4349, snail mail address: 493 Joyce St., Livermore, CA 94550.



Identity programs address federal mandate

Identity Management and the People Information Program (PIP) are sister projects working toward the goal of meeting the Homeland Security Presidential Mandate for common federal identities.

The foundation of any security program is accurate information about the people who work at or visit the Laboratory either physically or through access to the Lab's systems. PIP (the People Information Program) is implementing Livermore Administrative People Information System (LAPIS), the new people system. One of the primary objectives of PIP is creating a single database that will hold accurate, timely, accessible information about everyone who has access to LLNL.

Identity Management, the team that authenticates the data and authorizes cyber access, will benefit from having one source of up-to-date, reliable information as they grant access to the Lab's systems. Currently, the Identity Management project is being deployed with Official User Name (OUN) and Personal Access Code (PAC). PIP will facilitate Identity Management's move to the next level of robust security, two-factor authentication. Examples of two-factor authentication include Smart Cards and Tokens. In Phase II, both projects are moving toward Role Based Access Control (RBAC).

Sue Smith, team lead for Identity Management,

describes the relationship of Identity Management and PIP as a "wonderful marriage." She says, "It creates an ideal security model because it fosters the separation of the duties of the people who establish the "person identity" (LAPIS) and the team that grants cyber access (Identity Management)."

The Identity Management project is under the direction of Mark Graff, chief cyber security officer who reports to Ken Neves, chief information officer. The PIP is one of the CIO Institutional IT Program initiatives, led by Jim Lopez, the associate program leader for People Systems.

Newsline

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CORRECTION

Correction: In a photo on page 5 of last week's *Newsline* (July 29), Lab researcher Dan Dietrich, who was pictured in an interview with television reporter Manny Ramos, was incorrectly identified as Mark Dietrich. *Newsline* regrets the error.

National Cancer Institute renews UC Davis designation

By Claudia Morain
UC DAVIS CANCER CENTER

SACRAMENTO — The National Cancer Institute, the nation’s top cancer research organization, has renewed its designation of UC Davis Cancer Center for five years. The distinction comes with \$14 million in new federal funding through the year 2010 to support the center’s rapidly expanding research program, now comprising 179 scientists at work on 317 cancer projects on three campuses, including the Laboratory.

“It’s an outstanding achievement,” said Dennis Matthews, associate director of the UC Davis Cancer Center and director of the Lab’s Center for Biotechnology, Biophysical Sciences and Bioengineering. “We were past our honeymoon period and it’s a tribute to everyone involved that we got past that point. We put together a strong program over all.”

Matthews also leads the UC Davis Cancer Center’s biomedical technology program and directs the Center for Biophotonics at UC Davis. More than 50 Laboratory scientists are involved in research at the center.

The renewal follows an exhaustive scientific and administrative evaluation of cancer center programs by a 23-member NCI-appointed review panel made up of directors and scientists from top cancer centers around the country.

“It’s like winning the Pulitzer twice in a row,” said Ralph W. deVere White, director of the UC Davis Cancer Center and an internationally respected prostate cancer researcher. “It’s enormously gratifying to receive this national recognition of our unique scientific strengths and potential to impact cancer care worldwide.”

California has nine NCI-designated centers. Only two are in Northern California — at UC San Francisco and UC Davis. UC Davis Cancer Center serves the Central Valley and inland Northern California, a region the size of Pennsylvania.

In addition to caring for individual patients, it is the mission and obligation of NCI-designated cancer centers to improve the health of communities. NCI funding has allowed UC Davis Cancer Center to lead a

national effort to reduce cancer in Asian Americans. UC Davis researchers will use similar strategies in other ethnic groups, with a goal of making the region the first in the nation to eliminate ethnic disparities in cancer.

The NCI, a component of the National Institutes of Health, was established under the National Cancer Act of 1937 as the federal government’s principal agency for cancer research and training. The National Cancer Act of 1971 broadened the scope and responsibilities of the NCI and gave rise to the NCI’s Cancer Centers Program. The program supports 60 NCI-designated cancer centers throughout the United States to sustain broad-based, coordinated, interdisciplinary programs in cancer research. According to the NCI, designated institutions “are characterized by scientific excellence and capability to integrate a diversity of research approaches to focus on the problem of cancer.”

UC Davis Cancer Center first achieved NCI designation in July 2002. That designation came with a \$3.9 million grant over three years. The cancer center’s research partnership with the Laboratory, the first of its kind in the nation, was a key factor in winning designation. In that partnership, physicians and scientists work to turn technology developed for the defense industry into new cancer therapies, detection methods and prevention strategies.

In addition to its main facility on the UC Davis Medical Center campus, UC Davis Cancer Center has affiliate cancer centers in Merced (Mercy Cancer Center) and Marysville (Fremont-Rideout Cancer Center) and an infusion center in Roseville.

The UC Davis Cancer Center research program brings together scientists from 17 schools, divisions and programs on three campuses — the UC Davis Medical Center campus in Sacramento, the main UC Davis campus in Davis and LLNL. This blend of institutions and disciplines gives the research program a unique personality and the potential to contribute to the national cancer agenda in important ways.

In Sacramento, the research program draws investigators from the UC Davis School of Medicine as well as the California Department of Health Services and the Center for Biophotonics, Science and Technology, a program of the National Science Foundation. In

Davis, it draws scientists from the world-renowned UC Davis School of Veterinary Medicine, the College of Agricultural and Environmental Sciences and the departments of nutrition, chemistry and biomedical engineering, among others, as well as the USDA Western Human Nutrition Research Center. At Livermore, home of the world’s fastest computer and most powerful laser, 40 scientists are actively engaged in cancer research through the UC Davis Cancer Center research program.

UC Davis Health System has invested \$90 million in the cancer program over the past 15 years, recruiting 65 new research scientists and building a 52,000-square-foot Cancer Center and 50,000-square-foot, state-of-the-art cancer research facility. A 7,000-square-foot expansion of the Cancer Center’s radiation oncology clinic was recently completed. Another \$15 million has been committed for additional new research and clinical space.

Since first gaining NCI designation in 2002, the Cancer Center’s achievements include:

- Increasing funding for cancer research by 48 percent, from \$43.5 million to \$64.4 million.
- Offering more than 350 clinical trials, 41 of them originated by UC Davis Cancer Center physicians.
- Recruiting 30 new scientists to the cancer research program.
- Adding an associate director for cancer disparities and a director of outreach research and education, to build on cancer awareness, prevention and early detection efforts throughout the region, especially in underserved areas.
- Joining the Healthy Yuba County project, to address the cancer mortality rate in Yuba County, which is the highest in the state.
- Winning a \$5.5 million grant to spearhead a national effort to address cancer disparities affecting Asian Americans.

The \$14 million grant accompanying NCI designation renewal is earmarked for support of cancer center administrative and core research operations, called shared resources, over the next five years. Shared resources provide sophisticated technical services to researchers throughout the cancer program.

Cancer campaign on the march



JULIE KORHUMMEL/NEWSLINE

Above: Lab employees walked from Bldg. 361 and around the central basin to remember cancer survivors and victims. Side: Linda Leonardini signs a poster with names of survivors and those remembered. Below: Campaign co-chair Cathy Kaplan sports a cap with breast cancer awareness logo and Teddy bear.

More than 70 Lab employees, cancer survivors and those remembering relatives and friends who have been affected by the disease ignored soaring temperatures on Wednesday as they took part in a Memorial Walk, the kick-off to this year’s LLNL/Sandia Cancer Awareness Campaign.

Mark Costella and Cathy Kaplan, co-chairs of this year’s campaign, believe the annual Memorial Walk is a powerful way to show support for survivors as well as those who have lost the battle to cancer. “The purpose of the campaign is to raise awareness about cancer. It should be a concern of everyone,” Costella said. “You never know when cancer is going to invade your life. It knows no bounds,” said Costella, whose sister was diagnosed a few years ago with uterine cancer.



Kaplan, a cancer survivor herself, knows first hand the horrors of cancer. “Unfortunately, it’s the unifier of us all. It doesn’t discriminate for race, religion, gender or orientation. This campaign is all about awareness. If we can provide one wake up call for someone out there, then we all win,” Kaplan said.

A number of presentations are planned for August and September. For more information, contact Kaplan, 3-6555, or Costella, 2-8999.

Week of Aug. 8: LLNL/Sandia Cancer Awareness Campaign Event

Healthy Lifestyles to Defeat Cancer: (Aug. 9, Noon-1 p.m., Bldg. 482 auditorium) “Active for Life,” a fitness and nutrition program designed by the American Cancer Society (ACS), will be shared to help people prevent cancers that are related to obesity. Kristen Ogdon of ACS will present information about obesity and statistics correlating it to cancer.



NEWS YOU CAN USE



Tour de USA underway

From left: Celeste Matarazzo of Computation, Rose O’Brien of Defense and Nuclear Technologies and Janis Turner, a retired Livermore middle school teacher, on Baker Beach in San Francisco Sunday, July 31 at the start of their 3,850 mile ride across the country to Virginia Beach, Va. They’re using the ride to raise money for Hope Hospice in Dublin. See the Friday, July 15 edition of *Newsline* for more information. For updates on the trio’s progress or to make a pledge to Hope Hospice, check the Website: <http://www.cycleusa4hope.org>



Summer Student Calendar



Seminars, panels and other activities are in full swing for summer student employees. Go to the Student Bulletin Board at <http://education.llnl.gov/sbb/> for details and to register for events.

Tuesday
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ICST seminar: “Petascale Computing,” by David Jefferson, CASC. 2:30 p.m., Bldg. 219, room 163. Contact: Tiffany Ashworth, 4-3491.

Carol Woodward and Terence Critchlow, CASC. 2:30 p.m., Bldg. 219, room 163. Contact: Tiffany Ashworth, 4-3491.

Panel: “Graduate Opportunities: Fellowships and Scholarships.” 10:30 a.m.-noon, Bldg. 543, auditorium. Contact: Karen Lema-Crowe, 2-6233.

Wednesday
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DHS seminar: “Bio Forensics Overview,” by Steve Velsko, NAI, R Division. Noon-2 p.m., Bldg. 132S, room 1755. Contact: Barry Goldman, 2-5177.

Student poster symposium session I. 3-5 p.m., Central Café. Contact: Kerwin Falls, 2-6098.

Seminar and tour: “Laser Peening and Its Applications,” by Tania Zaleski, Laser Science & Technology Program/NIF. 1:30-3 p.m. Bldg. 482 auditorium. MIC tour to follow. Contact: Dustin Riggs, 2-5780, or Zhi Liao, 4-5622.

Thursday
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Student poster symposium session II. 3-5 p.m., Central Café. Contact: Kerwin Falls, 2-6098.

Seminar: “UC Merced Graduate School Info Session,” by Shawn Newsam, UC Merced. 5:15 p.m., Bldg. 219, room 163. Contact: Barry Goldman, 2-5177.

ICST seminar: “Effective Interviewing Skills,” by

Technical Meeting Calendar

Friday
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PHYSICS & ADVANCED TECHNOLOGIES/V DIVISION
“Recent Developments in X-Ray Laser Simulations and Experiments at the United Kingdom,” by Geoff Pert and Greg Tallents, University of York. 1 p.m., Bldg. 319, room 205. Property protection area. Foreign national temporary building access procedures apply. Contact: Stefanie Landes, 2-3201.

PHYSICS & ADVANCED TECHNOLOGIES/H DIVISION
“Empirical Nanotube Model: Applications to Molecular Channels and Nano-oscillators,” by Deyu Lu, Theoretical and Computational Biophysics Group, University of Illinois Urbana-Champaign. 10:30 a.m., Bldg. 219, room 163. Property protection area. Foreign national temporary escorted building access procedures apply. Contact: Eric Schwegler, 4-3098, or Julie Burnsides, 3-1277.

Monday
8

PHYSICS & ADVANCED TECHNOLOGIES/V DIVISION
“Metallization and Dielectrization of Matter at Megabars,” by Vladimir Fortov, Institute for High Energy Density Physics, Russian Academy of Sciences. 11 a.m., Bldg. 319, room 205. Property protection area. Foreign national temporary escorted building access procedures apply. Contact: Stefanie Landes, 2-3201.

CHEMICAL AND MATERIALS SCIENCE DIVISION
“Detection of Protein Molecules in Complex Mixtures: Prions and Bioagents,” by Chris Bailey, Bio-Mass Spectroscopy Group. 2 p.m., Bldg. 151, room 1209. Property protection area. Foreign national temporary escorted building access procedures apply. Contact: Ted Tarasow, 3-7241, or Kathy Ricard, 3-8024.

Tuesday
9

LIVERMORE COMPUTING
“LC Customers Monthly Meeting,” 9:30-11 a.m., Bldg. 453, Armadillo Room.

Common use facility. Foreign nationals may attend. Contact: Teresa Delpha, 3-7329.

LIVERMORE COMPUTING
“Heavy Vehicle Aerodynamics,” by Kambiz Salari and Jason Ortega, New Technologies Engineering Division. 10-10:30 a.m., Bldg. 453, Armadillo Room. This is the speaker segment of the LC customers monthly meeting. Common use facility. Foreign nationals may attend. Contact: Teresa Delpha, 3-7329.

PHYSICS & ADVANCED TECHNOLOGIES/N DIVISION
“An 8 GeV Superconducting Linac Proton Driver at Fermilab,” by G. William Foster, Fermilab National Accelerator Lab. 2 p.m., Bldg. 211, room 227. Property protection area. Foreign national temporary escorted building access procedures apply. Contact: Brian Rusnak, 2-0435, or Jessica Gowin, 2-7856.

The deadline for the next Technical Meeting Calendar is noon Wednesday.



Visiting the Laboratory



BODMAN

Continued from page 1

The secretary also lauded the Lab’s success in “translating its expertise into a broader research agenda in environmental science, energy and the biosciences as well as basic science and applied technology.

Bodman said one of his “great pleasures” in taking the job of energy secretary stemmed from the knowledge that “this department is the primary provider of research support for the physical sciences in the United States.”

Noting that industry no longer conducts basic research as in the past, he said, “Government is now left with the prime responsibility for moving the physical sciences agenda forward.

“I’ve spent most of my career at the interface of high quality technical work, be it at a research university or corporate or government laboratory, and the commercial environment and the commercialization of technology,” Bodman said. “I’ve come to believe over the last 40-50 years that the American economy — an economy unsurpassed in the history of the world — has been made so because of the efforts at that interface.”

Bodman worries, however, that the nation may lose its economic competitive edge if “we don’t maintain our focus on science.”

With China and India “building their own research universities,” he said, “We need to stimulate more American interest in science or we may lose our leadership position. I worry about the economic environment our children will inherit. And a lot of that is focusing on what you do at the national labs.”

Bodman concluded his remarks with a message about the importance of safety. In working for a chemical company with plants around the world, “I came to learn to measure our success not so much by earnings, but by whether the employees paid attention to looking after each other. I found over time that at those facilities where employees looked after one another were also the best performers economically.”

“I would ask you as you go about your work to pay attention to safety. I’ve been very pleased with what I’ve heard from the leadership,” he said. “But having been the leader of an organization before, I can tell that what the leaders say doesn’t matter. What matters is what goes on at midnight or 2 a.m. and whether people really pay attention to safety.”

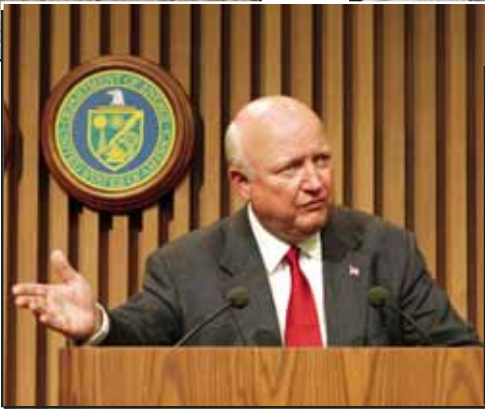
Asked after his opening remarks about safety in the DOE complex and his vision for safety in the department, Bodman said, “I do not find the Department of Energy a particularly well-managed enterprise. We have a long way to go in a variety of ways.”

“With respect to safety I hear a lot of people using the right words. I feel pretty good about it in terms of intentions, but intention matters only if they get translated into real results,” he said. “I’m hopeful, but not yet convinced.”

With self-deprecating humor, Bodman dealt with a sound system glitch and fielded questions from employees in the audience as well as questions submitted via e-mail.

The secretary was asked about the potential exodus of experienced employees at Los Alamos, in the event there was a change of contract. Acknowledging the high level of “emotion and tender feeling” at LANL, Bodman said competition of the contract to manage LANL is “not intended to encourage people to leave.”

“If there’s a mass exodus we will replace the people who choose to leave. I hope it won’t come to that because I believe the employees of our federal labs are important resources that matter to our country,” he said. “I



From top left:

- Energy Secretary Samuel Bodman with Director Michael Anastasio outside Bldg. 111.
- Bodman answers employees’ questions during the all-hands meeting.
- Computation Associate Director Dona Crawford with NNSA Administrator Linton Brooks and Energy Secretary Bodman in the Terascale Simulation Facility.

Below:

- From left: George Miller, Bodman, Anastasio and Moses in the NIF lobby.
- NIF Associate Director Ed Moses, left, shows target chamber to the Energy Secretary during tour of the laser facility.

think both competing groups understand that. ...but I devoutly hope that they and you, when this laboratory is competed in a year’s time, will see your way clear to staying here. You do a wonderful job and we’re going to work very hard to continue to earn your respect and your loyalty.”

Bodman also responded to questions about the Labs’ role in homeland security, the outlook for DOE’s 20-year facilities plan, future organization of the DOE/NNSA complex and technology transfer. “Technology transfer is a very healthy thing. We need to have more not less,” he said, adding that entrepreneurial activity should surround national labs. “I’m a product of technology transfer and I believe in it.”

Concluding the meeting, Bodman encouraged employees to send him feedback via e-mail. “I take this job very seriously. As you think about it, I hope you will conclude that one of your own got the top job and will do his very best to represent you well.”

Bodman can be reached by e-mail at: <the.secretary@hq.doe.gov>

Photos by Jacqueline McBride
Newsline





CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1997 - Ford Taurus V-6, exc cond, well maintained & clean 66,700 org. mi. New tires, radiator and heater core \$3,500.00 o.b.o. 925-449-5844

1995 - Acura Legend, mint condition 87k miles, dark green beige interior, original owner, smogged and registration valid August 2006 925-837-4331

2003 - Honda Civic LX. auto trans, A/C, PL, PW, cruise, CD changer, tint, alarm, remote entry, hitch. 32k miles. \$12,500 OBO 925-200-9976

1985 - Ford Bronco II, 4x4, 5sp, blue and tan, good cond, 170K mi, \$1000 925-443-3003

2001 - Honda Civic LX Coupe, 78,500 miles, AC auto, cruise, etc. extras \$10,500 925-735-6002

1995 - Mercedes E320, 132K, Excellent shape,new brakes & tires,\$5000 worth of work done last year. Runs like a charm! \$7999 obo 916-479-4165

1970 - VW Bug, about 215k mi. runs very well, 2nd engine, body in good shape, needs paint & few cosmetic fixes. \$2000 OBO 925-443-1953

1999 - Ford Explorer, 4WD V6, fully loaded, excellent condition, ~120k miles, one owner. \$8500 (KBB value ~\$10,000). 707-748-0786

2000 - Accord, EX Sedan, V6. Fully loaded with leather interior. Excellent condition. One owner. Ask \$12,000 OBO 925-963-7084

2001 - FORD ESCAPE XLS, fully loaded. Excellent condition. White with gray interior. 60K miles. One owner. \$10,800 925-455-0515

1985 - Toyota MR2. Runs well. Silver/black. \$675 or BO. 925-899-9675

1995 - Acura Integra, Great project car, runs good but needs front bumper, AC, rims, stereo, high miles, second engine. \$2K OBO 209-836-4345

1985 - Toyota Landcruiser wagon; 285k, not running; good project car; free to good home 925-447-4830

1987 - Nissan Pathfinder, 4wd, 2dr, pwr windows, locks, runs great but needs some work, good body, tires, 197k mi., \$1500 925-449-4796

1999 - Ford Expedition Eddie Bower, 4X4, LOADED including seat heaters, petal adjustment, duel A/C, 3rd row seating, and power leather seats. \$14K or BO 209-667-4310

AUTOMOBILE ACCESSORIES

White camper shell fits Toyota pickups \$200 925-283-3636

15 inch TIRES: Two 235/75/15 good tread, one mounted on 6 bolt rim \$25/ both. Livermore 925-447-7070

Ford 352-2v engine and automatic transmission, original, runs good. Hear it run in stand and see transmission go into gear. \$250. 925-455-8302

White camper shell fits long bed Ford F250 or like. Excellent condition. \$150 OBO 925-875-1040

Yakima roof rack system, including cross-bars, towers, locks, fairing, and 2 Steelhead bike mounts. Excellent condition. \$150. 925-455-6420

Trailer Hitch/Lighting Kit, Receiver-type, fits 90-93 Honda Accord. 200# tongue wt., #2500 total capacity. \$75/\$100 installed. 925-455-0577

BICYCLES

Quintana Roo Kilo 56 cm Rev-X, Ultegra, Chris King, speed play, All Parts Like New \$1,000 209-551-5514

BOATS

1973 TAHITI Jet Boat,455 Olds,Berkley Jet,seats 8,new upholstery,new optima battery,carb rebuilt last year,new points,new cover. \$3400 OBO 925-980-8896

CAMERAS

Brand new, palm size videocamera/digital camera/MP3 player. No tapes required, up to 2 hour video on 512MB SD card, \$799 list, sacrifice for \$289 415-543-3643

Nikon 8008s auto focus SLR; 35 mm, f2.0 lens; filters. \$225. or BO. 925-443-4292

ELECTRONIC EQUIPMENT

For collectors - Rare ATARI 810 Computer with Floppy, extra memory and game software. Mint condition, Make me an offer 415-543-3643

Las Vegas neon sign, pink neon letters w/blue neon border, 12 inch x 9 inch. Hang from wall or stand upright. Paid \$25. New. \$15 925-648-0671

Sony KV-27FS210 (27 in.) Trinitron/VEGA TV. ~1 yr old, used ~3 months. Perfect cond. Paid \$450, \$150 w/stand. 925-443-8353

Computer, Compaq pent. prolinea 575, 84 MBHD, CD, win95, msword 97, excell 97, monitor and keybd \$60 925-443-3003

Scanner, Epson Perfection 1260 with film, slide holders, Max OS8.6 9.x and Windows 98, 2000, ME XP \$45 925-443-4555

Onkyo surround sound speakers + stands (5 speakers + woofer, 2 yrs new). Make offer. 925-513-0927

XBOX hardly used, with approx 15 games mostly for sports minded. DVD, remote, 2 controllers, 1 wireless controller, carrying case and more. \$250 925-828-1980

GIVEAWAY

Rotisserie Gas BBQ. Large, Stainless steel. Removed from (Kenny Rogers) restaurant. You haul. 925-706-2337

Upright Kenmore Freezer, 7.5 cu ft, needs new seal on door. only 3 years old. You pick up. 925-447-7088

Free Color Ink cartridge for Espon 200 or 500. 925-846-2903

Fireplace insert / good condition will deliver within reasonable distance for cost of gas. 209-743-0964

Free-Electric lawnmower, 4 HP Black & Decker, rear bag, mulcher, works well. 925-443-8353

Partially used candles - great for Girl Scout project 925-447-8997

Two mirrored closet doors 48" w x 79" h with aluminum tracks. 925-600-1817.

HOUSEHOLD

Mitsubishi 35-inch tube TV console with walnut cabinet, picture-in-picture, cable-ready tuner, top-of-the-line unit, fantastic picture. \$175 415-543-3643

Neon Clock, retro blue border, 12 inch round, precision quartz movement, wall mountable, wire stand for tabletop. Paid \$25. New in unopened box. \$15 925-648-0671

Lightly used home office equipment, computer desk, 2 hutches, 2 three drawer chests, 2 two drawer file cabinets, digi photos available. 925-443-9929

Rescue Heroes! Just about every Hero known along with the aircraft carrier and other buildings. You can have the whole lot for \$20!!! 925-846-2903

Glass Round Table, Off white Fabric, 4 Chairs Matching Rectangular glass table, w/matching end tables. \$200/for all 209-406-0486

Brass headboard for king size bed. Excellent condition. Call for photo. \$50 OBO. 925-833-1940

Twin Mattress, Box Spring, frame. Perfect condition - like new! \$100/offer. 925-634-8658

Oak Rolltop Desk, new \$1800, asking \$500. Excellent condition. Pix available 925-373-0247

Canning jars, various sizes. \$10.00. If interested, will bring to work. 510-582-2938

Queen Bed Set new mattress & box spring. Hd/Ft board, 2 night stands.Good condition \$350 925-634-6613

Gibson 13 cubic foot upright freezer. Excellent condition, \$100.00. 925-447-3899

Entertainment Center with 2 bookcases - solid oak, white washed finish, excellent condition, very solid. Contact for dimensions, photo. \$275 OBO 925-337-5268

Loftbed includes desk, bookshelf, 5 drawers and ladder. Light colored wood. \$ 450.00 925-449-8757

STUDENTS! Microwave, Twin Bed, Mini-Fridge, endtables, & more. Call if interest-

ed for prices (reasonable). 925-447-2130

Clothes Dryer, Electric, Kenmore super capcity model with electronic control panel. \$700 new, selling for \$20.925-484-0697

Maytag refrigerator 18.5 cu. ft. with ice maker. 5 yrs old. Excellent condition. \$200.00 925-960-9812

Coffee tables Oak - 2 good condition \$15.00 each or \$20.00 for both 925-447-8997

Refrigerator, Amana, 20 cubic ft., almond color, in very good condition, \$75 925-447-6410

1-Maple coffee table and 3-end tables with reclining cream colored leather couch and love seat. \$1,800.00 OBO Contact Bill @ 925-757-2166

Love Seat blue, mauve, and beige foral desgin. \$75 209 830-7842 209-830-7842

Bookshelves, folding with 4 shelves, all wood. 14 available, \$20 each. 925-447-4345

LOST & FOUND

Sunglasses, Bifocal found in lab bicycle basket ~1Aug05. Call 2-3991 to claim or 925-443-5418

Found Book in LLNL lab bike basket. Billy Graham (Hope for each day) 209-599-6449

MISCELLANEOUS

Baby swing, Cosco. 3 position recline, 2 speeds, snack tray, folds up for storage. Paid \$45 plus tax. New in unopened box. \$30. 925-648-0671

Two Tickets to Chicago and Earth, Wind & Fire at Shoreline Amphitheater in Mountain View. 9/3 at 7:30 p.m., Section 201. Paid \$175. Make offer. 209-914-0900

Canon portable typewriter, \$20 925-443-4555

Southwest Airlines ticket anywhere Southwest flies. Flight must be completed by 8/24/05. Value \$72.10, sell for \$30.00 925-998-2620 925-998-2620

3 Giants tix for sale. All weekday & some weekend games available from season ticketholder. \$60. View reserve, section 319. 415-830-0804

15.5 White horse Lawn Tractor w/dual bags. Transmission went out. New tires, seat and starter. Great engine. Make offer 209-743-0964

Industial Minor Saw, good for detail. Hardly used. Excellent quality. If interested, will bring to work, 50.00 OBO 510-582-2938

Hot Wheels Car Wash, Bob the Builder Lofty Duplo Lego set, like new, \$10 each. 48 piece floor puzzles, \$5 each. 925-454-0877

Rototiller, Troy-Bilt Tuffy, 3hp Tecumseh engine, well maintained w/ manuals. Asking \$225. 209-747-7603

Craftsman 14 in. hand lawn mover. Used for short time only. \$75 209-830-7842 209-830-7842

MOTORCYCLES

2002 - HD FXD Silver - Wind Vest, Screaming Eagle Pipe, Dual Front Discs, Upgraded Shocks, Highway Bars 8K miles. 15K 209-404-8931

2000 - blue Yamaha R1, 1 owner, extremely clean. 6,000 miles. \$6k 415-726-8822

2003 - Kawasaki KLR 650, Dual Sport, 51MPG, only 5K miles, showroom cond. Full Warranty, All extras included, First \$3,900 takes it. call for info 209-599-3331

Margay Race Kart - 125cc air cooled kart engine. New chassis, stand, spares. Excellent condition - \$1500 OBO 209-838-0304

1999 - HDRoadking, 103ci screaming eagle motor, 6speed baker transmission, Rhinehard exhaust, Black custom orange pinstripe, many extras & chrome 20k 209-823-3848

1995 - Suzuki Katana 750. Less than 6000 miles. Yoshi exhaust. Full fairing. Cherry Red. Good Condition. \$3,500.00 OBO 925-373-1450

MUSIC INSTRUMENTS

Bb Clarinet, Selmer recently overhauled \$1,000. 925-447-0937

PETS & SUPPLIES

Male, and Female Bassett hounds. AKC registered breedable pair. Must go as pair to good home. asking \$800 209-914-4085

Chocolate Lab Puppies Available 8-28-05. Parents AKC Registered. Litter Registered. Mom on Site. 209-832-8950

Interested in adopting or fostering a bunny? Rabbits are spayed/neutered, indoor homes only please. Call for more info and to meet the bunnies. 925-447-2130

Cage suitable for guniea pigs, rabbits, hamsters, rats, etc. Light bridge, thermostat, removeable bottom for cleaning. \$20. 925-484-0697

Aquarium, 90 Gal with filters etc. \$90. Large tub of sea salt, BO. 925-447-4345

RECREATION EQUIPMENT

Eddie Bauer deluxe sunshade, 14 x 14, in carrying case. Shockcorderd fiberglass frame for easy assembly, lightweight & compact. Paid \$60. New. \$35 925-648-0671

Billiard table light fixture, brass bar with three glass shades, beautiful condition, retail \$550, sell for \$150. Call for photo. 925-833-1940

RIDESHARING

Express your commute, call 2-RIDE for more information or visit http://www-r.llnl.gov/ tsmg.

Davis - I am looking for more people to carpool from Davis. My schedule is 8:30 to 5:30 408-568-5723, ext. 2-6424

Walnut Creek - Seeking 4th person in carpool leaving Rudgear Park-N-Ride 7:10-7:15AM. Arr. West Gate 7:45-7:55AM. Depart Lab 4:45 PM. 925-256-6805, ext. 2-1257

Modesto - looking to carpool from 132/Carpenter/Paradise area, 9/80 Schedule B 209-204-6267, ext. 3-9113

stockton - Iam looking for 1 or 2 persons to carpool from stockton (march lane)my schedule is 6:30 to 4:00 pgr;00154 ext. 3-0475 ask for Rene. thanks. 209-954-1703, ext. 3-0475

Modesto - 8:00 - 4:20 work schedule. Captain chairs, reading lights, etc. Transportation pretax and option to help with driving and save more. 209-521-9047, ext. 2-5177

SERVICES

Sprinkler repair, Got a broken sprinkler head, valves not working right, give us a call for a FREE Estimates. We also work on low voltage lights. 925-519-4084

House Cleaning Services, Reasonable, Reliable, Discount Lab Employees, Call Now Free Estimates!!!! 209-612-3185

Interior, Exterior Painting, Free Estimates. Excellent Workmanshp, 25 Yrs Exp. References. 510-537-7222

Expert handyman plus, decks, fences, arbors, and more. Also rain gutter specialist, fix gutters now and save money. 925-518-3570

Wedding Photography: 25 yrs exp. Using medium format cameras-not 35mm. You keep the negatives! See photos at 925-829-1474

Bounce house rentals by Bounce-A-Bout. Serving Manteca & surrounding areas. Let us add the bounce to your event! Book today! 209-483-6311

Mobile custom installation for autos, boats, etc. Specializing in audio, video and tower boxes. 925-348-5198

SHARED HOUSING

Livermore - Room for rent. Nonsmoker, all privileges. \$600/month, no deposit required. 925-449-1474

Livermore - Large room with king 4 poster bed in 4 bedroom house. Private bath. Pool, beautiful back yard. Kitchen, bar-b-que use. Hot tub. \$650 inc. utilities. 925-899-9675

Tracy - furnished room/bath; kitchen & laundry privileges; non-smoking; no pets; \$395/month + 1/3 utilities; \$150 deposit; 209-814-5278 or 209-832-3331

TRUCKS & TRAILERS

1972 - GMC Pickup runs great, lots of power 209-931-9212

1990 - 5x8 flatbed utility trailer \$300.00 obo. call after 6:00 pm 209-574-0939

1979 - Chevy Suburban Silverado 4x4. 400ci, auto, many extras, runs and drives, needs a little TLC, as-is. \$700.00 925-413-2382

2000 - Chevy S-10 LS,108K mi.\$5700 O.B.O. 209-679-7313

1996 - Ford Ranger XLT, extra cab, good running, bedliner,long bed, cas-sette. Nice little work truck 5,250.00 OBO 510-537-7222

1998 - Chevy Z71 teal colored 4x4 extended cab 3 door, 117k mi., fully loaded, leather seats, bed liner, great condition, \$9200.00 B/O 925-516-8925

2005 - Trailer tires Goodyear Marathon 215-75R/14 have 4 with less than 200 miles on them, 3 are in excellent shape one good for spare. \$325. 925-447-4797

2002 - Chevy/GMC gas engine Superchip programmer. Purchased in May for \$425 have receipt, works great, got new truck. \$375, leave message. 209-835-9240

2000 - Enclosed single axle 5x10 Wells Cargo Sport, hardly used, custom wheels & lights. \$2,250 OBO 209-836-4345

1998 - Dodge Ram 4x4 135,105 Miles, 60,000 on new 5.9L engine. Power everything, excellent condition. \$9,000 925-778-8283

VACATION RENTALS

Maui-Kihei oceanfront condo: beautiful white sandy beach, snorkeling, pools, tennis, BBQ. Pro golf course nearby. Low LLNL rates. 925-846-1459

Cozy mountain cabin near Arnold. 4 bedr, 2 bath. Close to hiking, fishing, lakes,etc. \$ 75/night Sunday-Thursday. 925-245-1114

Sooo cute beach cottage in Santa Cruz near boat harbor. 2 bedr,2bath, spa. 4 blks to ocean. Plan ahead for beautiful fall weather. 925-245-1114

Tahoe cabin for rent 2 blocks from Heavenly. Sleeps approx 8 adults. \$400/wk, \$200/wknd. Call for details. 925-240-1615

Soda Springs - Cabin, hiking, biking, boating, at beautiful serene lakes, 4 bdr, 2 bath, special rates for lab guests, 925-487-8366

MAUI - 1 year house exchange. Perfect opportunity to see what it is like to live in paradise for longer than a short vacation. 925-449-4003

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, quiet area, all amenities, park with Lake, tennis, etc., Great for family vacation. RESERVE NOW! 209-599-4644

Soda Springs - Raft the Truckee, hike Royal Gorge, play tennis or sit and read a good book overlooking the mountains. Charming 1BR/loft in Old Soda Springs Station. 415-927-4415

WANTED

Wanted--utility trailer at least 10 feet long. Price negotiable. 415-726-8822

Anyone in the Livermore/Dublin/Pleasanton or Brentwood area permitting someone to hunt wild game on their land/property. Please leave message. 925-961-0779

Need working condition 2-burner electric stoves and refrigerators to furnish 4-unit apartment. 925-245-1114

Have any old tennis balls? We have new machine but are wanting previously owned balls. We need practice!! 925-245-1114

Wanted 50 gal or larger aquarium and stand for aquatic turtles. 209-552-0810

We are looking for a small condo or small studio to rent in Honolulu for 2. Low rate for Dec. 24 to Jan 6. Dates are open. 510-537-7222

Wanted: working PC with cd drive, monitor not needed. Pentium II or higher, <\$50. 415-601-3758

Wanted, 91-93 Nissan 240 SX, MT, AC, Good Condition. 209-839-9229

OPSEC presentation addresses employee security

If you think you're on your own facing threats of assault, domestic violence, ecotage, stalkers, terrorists, cyber crooks and crank callers, think again. Then add this important presentation to your calendar. OPSEC, UC Police, Cyber-security and the Livermore Police Department invite all employees to a joint, unclassified presentation entitled "Employee Security— The Local Threat." It will be held next Thursday, Aug. 11, at 1:30 p.m. in the Bldg. 123 auditorium.

Associate Director Dave Leary requested this event to show employees the resources and agencies that are available to them, or that are already working on their behalf to mitigate local threats in their workplace, work-lives and per-



Mark Graff



Dave Leary



Steve Krull



Pam Poco

sonal lives, as well as in their communities.

Leary will introduce Pam Poco, Operations Security and Program Support division leader, who will explain the protections that OPSEC and the UC Police offer to employees, their spouses, partners and families with a special focus on operations security and law-enforcement threat mitigation .

Livermore Police Chief Steve Krull will explain the dynamic partnership between the

Laboratory and his department that produces a secure community.

Chief Cyber-Security Officer Mark Graff will focus on cyber threats and mechanisms to protect the Laboratory and its employees.

And UC Police will screen a

seven-minute video produced by the Michigan State Police entitled, "Seven Signs of Terrorism."

Leary urges all employees to attend, saying, "Everyone who attends will leave feeling better about their security at work and at home. Additionally, everyone will leave knowing the security and law enforcement resources that they can call upon, should the need ever arise."

PROTEST

Continued from page 1

law enforcement officials who will coordinate policing of the demonstrations with the Lab's Protective Force Division. Sheppard said that the Saturday event, entitled "Seeds of Change," is being referred to as a rally by organizers, who began generating interest with affinity groups last September.

He said as many as 1,000 participants from 54 sponsoring organizations will gather at William Payne Park, at Vasco and Patterson Pass roads starting Saturday at 5 p.m.. They plan to conduct a candlelight march to West

Gate Drive starting at 7 p.m., and should leave by 9 p.m. Sheppard said that organizers are not expecting any participants to be arrested on Saturday. But plans and forces are in place to protect both the Laboratory and the neighborhood should illegal activity or misconduct occur.

Staged on a weekend evening, the Saturday rally should cause little disruption to Laboratory operations. But the Tuesday morning event, although smaller, will produce a greater impact on employees and Laboratory operations. Sheppard said he expects up to 200 marchers to gather at William Payne Park at 8 a.m., then march to and block the West Gate entrance sometime between 9 and 11 a.m. During those hours he asks employees to enter

and exit the Lab via the East, South, or Southwest gates. Mesquite Gate will remain closed, and Sandia will reduce access at the Echo Two entrance to East Avenue at Vasco. If demonstrators force Sandia security to close Echo Two, Lab employees should use the Echo One entrance at Greenville and East Avenue.

Sheppard estimates between 25-50 arrests on Tuesday morning, based on last year's demonstration, when more than 70 people were cited and released for obstructing a public roadway. The Alameda County Sheriff's Department, Livermore Police Department, California Highway Patrol and Sandia security will assist with the traffic control, crowd control and arrests.

AURORA

Continued from page 1

was a predictive knowledge program that would use and integrate simulation, data assimilation and pattern recognition and apply them to national security and scientific applications. Other initiatives included:

- Energy security, in which Lab researchers would expand analysis, technology and collaborations to address energy resources, climate and water. This also would include development of transformational energy technologies to meet the future demand for energy.
- Positioning LLNL as the premier national "Fusion Laboratory."
- Leadership development and knowledge transfer programs;
- Development of centralized operations; and
- Establishing the Lab as the premier national resource in biodefense.

Anastasio and the senior management team now will examine the proposals and get back to the Aurora team and all employees in the fall with their final decisions on implementation of those ideas.

"We'll be looking at all these strategies. The key is when we get going along, we'll appoint a champion and a team," said Anastasio referring to what will be called "director's initiatives."

"My expectation is that we'll have several of the initiatives that jump out as obvious proposals to move us through the next 20 years,"

Anastasio said. "Some will be strategic initiatives that report directly to me. Others will be assigned to associate directors for implementation.

"I was proud to sit through the presentations and think about the next 20 years of the Lab," Anastasio said. "The Lab will be in good hands. Keep that passion going."

During the offsite meetings, proposed initiatives were presented to five red teams made up of all Aurora project members. Questions and critiques received during the sessions were used by presenters to improve presentation of the proposed initiatives for Thursday's final session.

"These were all excellent ideas," said Cherry Murray, deputy director for Science and Technology. "I also enjoyed the red teaming process and how all the Aurora participants came together to make these great proposals even better."

Aurora, LLNL's Vision for 2025, launched in mid-April when managers and employees were selected to serve on five planning teams: Missions and Sponsors; Science and Technology; Operations and Infrastructure; Workforce and Work Environment; and Partnerships and Relationships.

"I really thought it was a good process," said Manny Lateiner, deputy associate director of administration and operations for Safety and Environmental Protection, who was on the Workforce and Work Environment team. "I was really impressed with the time and the effort people put into the proposals. There was a mix of proposals that spanned from very far reach-

ing to the practical."

Team members and senior managers were impressed with the breadth of proposals.

"I was pleased about the range of initiatives," said Robin Newmark, associate program leader for Water and Environment in the Energy and Environment Directorate, who was on the Partnerships and Relationships team. "It covered every aspect of the Lab, from science and technology to trust to organizational issues. It was good that there was a broad spectrum."

All employees were offered the chance to provide input directly to the teams through a Website dedicated to the project.

In addition to weekly meetings, the teams held town hall meetings in May to gather additional input from employees.

"I want to personally thank all the employees, those on the teams and the general Lab population, who made this project possible," Murray said. "We couldn't have come this far without the input we received from employees on the Website and through the town hall meetings."

Aurora was born from intensive discussion about the Laboratory's future direction at the Senior Management Council's February offsite meeting. Following that meeting, a new 2025 vision was unveiled: LLNL must continue to evolve into "a multidisciplinary science and technology lab dedicated to national security in the global context."

In addition, senior managers also agreed that "the nation's national security needs will be broadened to include not only what we are addressing today, but include more emphasis on biodefense, energy, security, environmental security and asymmetric warfare (terrorism)."

New course for graduate students in nonproliferation

By Stephen Wampler

NEWSLINE STAFF WRITER

LLNL isn't often thought of as a university, but that's what it has been in a sense for 20 graduate students during the past two weeks.

The students, who hail from 11 universities around the nation, have been busy taking a graduate-level course — "Analytical Methods for Nuclear Nonproliferation and National Security."

Hosted by the Laboratory's Radiation Detection Center (RDC), the 80-hour class has featured more than 30 lectures, mostly from LLNL and UC Berkeley scientists and engineers, as well as keynote addresses from policy-makers, tours, student projects and radiation detection exercises.

"The class has gone extremely well," said Simon Labov, RDC director. "Lab scientists have put a great deal of thought and energy into this course. Some of our retired or senior researchers have shared their career work with these students."

The students, who are expected to receive three to five units of college credit for their work, are all seeking master's or doctorate degrees in nuclear science, nuclear engineering or health physics. And they say they've found their summer class helpful.

"It's been a great experience," said Derek Haas, a second-year graduate student seeking a Ph.D. in nuclear engineering from the University of Texas at Austin. "There's a mixture of technical information as well as public policy. We're getting high-level attention from people who have briefed the Secretary of Defense."

Haas, whose Ph.D. research will be on nonproliferation, said one of his professors told him the course "would be a great opportunity to work with people who are doing leading-edge research."

Kyle Maloy, a second-year graduate student who is pursuing a master's degree in health physics from Oregon State University, called the course "awesome."

"It's been a benefit to learn from people who are working in these fields and developing detectors. It's given me a fresh perspective on my studies."



BOB HIRSCHFELD/NEWSLINE

Left to right: Derek Haas of the University of Texas at Austin, David Bytwerk of Oregon State University and Samuel Chen of Washington State University are using field grade detection equipment to measure variations in background radiation as part of a two-week course hosted by LLNL's Radiation Detection Center.

Elena Rodriguez, a fifth-year graduate student from Spain, is seeking a Ph.D. in nuclear engineering from UC Berkeley. She described the class as a "unique opportunity."

"I'm concerned about terrorism; it's an international problem and it requires international cooperation. I'm grateful to have this opportunity to learn from the experts."

The two-week course is scheduled to be capped off today with a keynote address by Lab employee Mike Carter, who is serving on assignment in Washington D.C. as the chief scientist for the Department of Homeland Security's Domestic Nuclear Detection Office.

Today's events also will include an eight-scientist panel discussion on "Career Opportunities in Nuclear Threat Reduction," presentation of the students' projects and a certificate completion ceremony.

Among the scientific topics covered have been reviews of nuclear physics and radiation detection, gamma ray observables and signatures, technical innovations to address chemical and biological threats,

nuclear forensics, forensic radiochemistry and seismic modeling.

The lectures have included talks on proliferation from Michael Nacht, dean of public policy at the Goldman School at UC Berkeley, on terrorism networks from Q Division's Tony Farmer, and on nonproliferation from George Anzelon of Z Division. They have toured the National Ignition Facility, the Radiation Counting Laboratory and the RDC's detector development labs.

The students' visit to LLNL — and course work — has been sponsored by the Department of Energy's Innovations in Nuclear Infrastructure and Education program and the Western Nuclear Science Association.

"The Department of Energy started this program because there was concern that the United States wouldn't be graduating enough students in the nuclear sciences because of declining enrollment," Labov said.

"We need nuclear scientists to support current and future nuclear power plants, the Navy, the national laboratories and

now even more because of the threat of terrorism," he added.

In Labov's view, the course has definitely proven worthwhile and it also could serve as a recruiting tool for the Laboratory.

This year's class includes five students from Oregon State University, four from UC Berkeley, two each from the University of Texas at Austin and the University of Illinois-Urbana Champaign, and one each from UC Davis, Washington State University, the University of Michigan, Idaho State University, Georgetown University, Pennsylvania State University, and the University of Massachusetts-Lowell.

Members of the organizing committee that set up the class include: Steven Binney, professor emeritus in the Department of Nuclear Engineering at Oregon State University; LLNL staff scientist Tom Gosnell; Nancy Hutcheon, Christie Shannon and Labov from LLNL's RDC; Tom Isaacs, of the LLNL Director's Office; and Edward Morse, professor in the Department of Nuclear Engineering at UC Berkeley.

PURPLE

Continued from page 1

oratory. The ASC Purple contract, announced by the Secretary of Energy in November 2002, scheduled a demonstration of the Purple system in late June.

"The better than expected performance result of the June demonstration represents a lot of work by many people working in partnership over many years," said Mark Seager, LLNL leader for new computing technology. "Purple delivers the entry level computing power required for the full weapon system simulation capability the ASC program needs to fulfill its vital Stockpile Stewardship mission."

The Purple machine will conduct simulations of nuclear weapons performance critical to NNSA's program to ensure the safety, security and reliability of the nation's aging nuclear deterrent without underground nuclear testing. ASC is a tri-laboratory program including Sandia, Los Alamos and Livermore national laboratories.

While performing the demonstration calculations, Purple surpassed its performance objective by 10 percent. The demonstration included two Marquee applications, sPPM (turbulent hydrodynamics) and UMT2000 (unstructured mesh radiation transport), executed on the world's largest cluster of P5-p575 nodes. Each p575 is powered by 8 Power5 microprocessors running at 1.9 GHz and is configured with 32 GB of memory. The Purple demonstration system consists of 1,280 servers interconnected with two planes of the pSeries Federation interconnect running at 8 GB/s

link bi-directional bandwidth.

Another 250 servers of Purple are already serving the ASC program in classified operations at LLNL and another 108 servers of Purple are serving the ASC program in unclassified operations at LLNL. IBM is currently installing the full Purple dual plane Federation switch in the TSF and debugging it with an additional 256 P5-575 nodes.

The successful demonstration required that the system achieve a performance standard equal to the theoretical peak performance of the 1,280 node Purple cluster plus a combined 30 percent sustained performance relative to peak on the two Marquee codes. That translates into 77.8 teraFLOP/s (trillion floating-point operations per second) peak plus 23.2 sustained and was achieved on June 23, 2005. Additionally, the Linpack benchmark code was executed on 1,185 nodes of the Purple cluster and reached 84 percent of peak performance, or 60.490 teraFLOP/s (Rmax). This performance would place the ASC Purple system in third place on the current TOP500 list, behind two IBM BlueGene/L systems: the largest of which is currently on site at LLNL.

The Purple system is "truly gargantuan by most metrics," according to Seager. The Federation and I/O interconnect requires more than 17,000 cables totaling over 140 miles (about the distance from Livermore to the east shore of Lake Tahoe). Purple has 2 million gigaBytes (2 petaBytes) of storage from more than 11,000 Serial ATA and Fibre Channel disks. "The NNSA - Lawrence Livermore — IBM partnership has always found a way to do what others believed couldn't be done," said Dion Rudnicki, IBM vice president, Federal Civilian Agencies.



Newsline

UC-LLNL

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